

L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:346977 CAPLUS

DN 142:392186

TI 2-Cyanobenzenesulfonamides for combating animal pests and their preparation

IN Von Deyn, Wolfgang; Baumann, Ernst; Hofmann, Michael; Kordes, Markus; Puhl, Michael; Schmidt, Thomas; Tedeschi, Livio; Rack, Michael; Bucci, Toni; Culbertson, Deborah L.; Cotter, Henry Van Tuyl; Oloumi-Sadeghi, Hassan

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 67 pp.

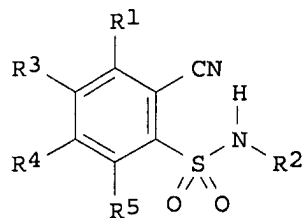
CODEN: PIXXD2

DT Patent

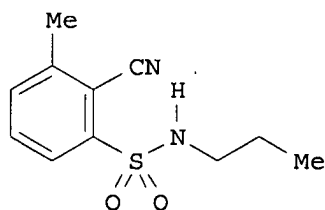
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005035486	A1	20050421	WO 2004-EP11004	20041001
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004279549	A1	20050421	AU 2004-279549	20041001
	CA 2539563	A1	20050421	CA 2004-2539563	20041001
	EP 1670752	A1	20060621	EP 2004-765761	20041001
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	CN 1863767	A	20061115	CN 2004-80028841	20041001
	BR 2004014897	A	20061212	BR 2004-14897	20041001
	JP 2007507459	T	20070329	JP 2006-530074	20041001
	MX 2006PA03145	A	20060614	MX 2006-PA3145	20060320
	US 2007071782	A1	20070329	US 2006-574153	20060329 <--
	IN 2006CN01103	A	20070817	IN 2006-CN1103	20060331
PRAI	US 2003-507507P	P	20031002		
	WO 2004-EP11004	W	20041001		
OS	CASREACT 142:392186; MARPAT 142:392186				
GI					



I



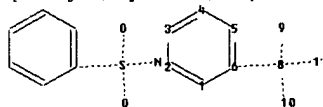
II

AB The invention relates to 2-cyanobenzenesulfonamide compds. of formula I and/or to their agriculturally useful salts. In compds. I, R1 is C1-4 alkyl, C1-4 haloalkyl, C1-4 alkoxy, or C1-4 haloalkoxy; R2 is H, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, (un)substituted C3-8 cycloalkyl, or (un)substituted C1-4 alkoxy; R3, R4, and R5 are independently selected from H, halo, cyano,

nitro, C1-6 alkyl, C3-8 cycloalkyl, C1-4 alkoxy, etc.; and includes agriculturally useful salts. The invention also relates to the preparation of I, agricultural compns. containing at least one compound of formula I and/or at least one agriculturally useful salt of I, and at least one inert liquid and/or solid agronomically acceptable carrier, and, if desired, at least one surfactant. Diazotization of 2-amino-6-methylbenzonitrile followed by sulfonylation and amidation with propylamine gave cyanobenzenesulfonamide II. Prepared similarly, the N-Et analog of II (I; R1 = Me; R2 = Et; R3 = R4 = R5 = H), at 300 ppm, resulted in over 75% mortality of 2-spotted spider mites (*Tetranychus urticae*) and over 85% mortality of 3 tested aphid species.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> Uploading C:\Program Files\Stnexp\Queries\10574153-broad.str

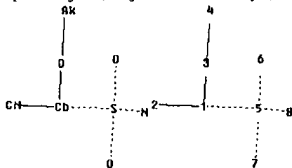


chain nodes :
8 9 10 11
ring nodes :
1 2 3 4 5 6
chain bonds :
6-8 8-9 8-10 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
6-8 8-9 8-10 8-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS

L3 STRUCTURE UPLOADED

=> Uploading C:\Program Files\Stnexp\Queries\10574153-elected.str



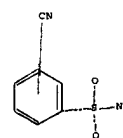
chain nodes :
1 2 3 4 5 6 7 8
chain bonds :
1-2 1-3 1-5 3-4 5-6 5-7 5-8
exact/norm bonds :

FILE 'REGISTRY' ENTERED AT 12:58:14 ON 28 JAN 2008
SAV TEM L6 BRD574153/A

FILE 'REGISTRY' ENTERED AT 13:03:32 ON 28 JAN 2008
L16 STRUCTURE UPLOADED
L17 9 S L16 SAM SUB=L6
L18 129 S L16 SSS FULL SUB=L6
FILE 'CAPLUS' ENTERED AT 13:03:58 ON 28 JAN 2008
L19 16 S L18
L20 1 S US2001-574153/APPS
L21 1 S L19 AND L20
L22 15 S L19 NOT L20

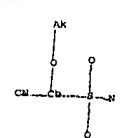
FILE 'REGISTRY' ENTERED AT 13:04:23 ON 28 JAN 2008

=> d 18
L8 HAS NO ANSWERS
L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 116
L16 HAS NO ANSWERS
L16 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 122 tot bib abs hitctr

1-5 3-4 5-6 5-7 5-8
exact bonds :
1-2 1-3

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
Generic attributes :
1:
Saturation : Unsaturation
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

L16 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 12:50:41 ON 28 JAN 2008)

FILE 'REGISTRY' ENTERED AT 12:50:51 ON 28 JAN 2008
L1 SCREEN 1838
L2 SCREEN 1839
L3 STRUCTURE UPLOADED
L4 50 S L3 AND L1 SAM
L5 50 S L3 AND L1 NOT L2 SAM
L6 55096 S L3 AND L1 NOT L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 12:53:02 ON 28 JAN 2008
L7 57752 S L6

FILE 'STNGUIDE' ENTERED AT 12:53:31 ON 28 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:54:24 ON 28 JAN 2008
L8 STRUCTURE UPLOADED
L9 26 S L8 SAM SUB=L6
L10 611 S L8 SSS FULL SUB=L6

FILE 'CAPLUS' ENTERED AT 12:54:55 ON 28 JAN 2008
L11 280 S L10

FILE 'STNGUIDE' ENTERED AT 12:55:16 ON 28 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:55:56 ON 28 JAN 2008
L12 STRUCTURE UPLOADED
L13 15 S L12 SAM SUB=L10
L14 361 S L12 SSS FULL SUB=L10

FILE 'CAPLUS' ENTERED AT 12:56:19 ON 28 JAN 2008
L15 49 S L14

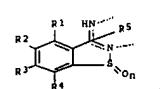
FILE 'STNGUIDE' ENTERED AT 12:56:31 ON 28 JAN 2008

FILE 'CAPLUS' ENTERED AT 12:57:11 ON 28 JAN 2008

FILE 'STNGUIDE' ENTERED AT 12:57:24 ON 28 JAN 2008

L22 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2005 ACS ON STN
AN 2007:1145210 CAPLUS Full-text
DN 147:421320
T1 3-Amino-1,2-benzisothiazole compounds for controlling invertebrate pests
IN Pohlman, Matthias; Von Deyn, Wolfgang; Kaiser, Florian; Baumann, Ernst;
Rack, Michael; Anspaugh, Douglas D.; Culbertson, Deborah L.; Van Tuyt
Cotter, Henry
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 68pp.
CODEN: PIXKD2
DT Patent
LA English
FAM.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007/113119	A1	2007/10/11	WO 2007-EP52738	2007/03/22
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI US 2006-787809P	P	2006/03/31		
OS MARPAT 147:421320				
GI				



AB The present invention relates to pesticidal 3-amino-1,2-benzisothiazole compds. of formula (I), wherein R1 = (un)substituted (halo)alkyl, alkenyl, alkoxy, cycloalkyl, etc.; R2-R4 = independently H, halo, CN, azido, NO2, (halo)alkyl, cycloalkyl, etc.; R5 = H, OH, (un)substituted alkyl, etc.; and n = 0, 1 or 2, or to enantiomers, diastereomers and salts thereof, with the proviso that when n = 0, R5 is not H. The invention also relates compns. comprising such compds., application methods, and use of I deriva., their salts, or compns. comprising them for combating animal pests, including insects, arachnids or nematodes. Thus, cotton plants at the cotyledon stage were infested with cotton aphid (Aphis gossypii, mixed life stages) prior to treatment with formulated solids, of I deriva., and aphid mortality was determined after 5 days. In this test 40 of the I deriva. at 300 ppm provided 26% mortality of cotton aphid in comparison with untreated controls.

IT *46154-21-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of aminobenzenesulfonamide pesticide)
RN 850154-43-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-methoxy- (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:934877 CAPLUS Full text

DN 147:277460

TI Preparation of aminothiobenzoyl-substituted benzenesulfonamides and pyridinesulfonamides as pesticides for the protection of plants against animal pests and insects and particularly against aphids and thrips

IN Kaiser, Florian; Von Deyn, Wolfgang; Pohlman, Matthias; Anspaugh, Douglas D.; Culbertson, Deborah L.; Cotter, Henry Van Tuyt

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 25pp.

CODEN: PIXXD2

DT Patent

LA English

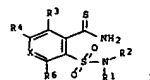
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 200709530	A1	2006/0823	WO 2007-EP51145	20070207
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BH, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRAI US 2006-774134 P 20060216

OS MARPAT 147:277460

GI



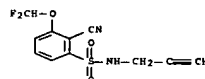
AB The present invention relates to (thiocarbonyl)substituted aryl sulfonamides 1, wherein X is N, NO, CR5; R1 and R2 are independently H, acyl, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl; R3 is H, nitro, CN, N3, NH2, halogen, sulfonyl-amino, sulfinyl-amino, sulfinyl-amino, acyl, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, alkylthio, alkylamino, alkyl-sulfinyl, alkyl-sulfonyl, alkyl-sulfonyl; R4-R6 are independently H, halogen, CN, N3, NO2, alkyl, cycloalkyl, halo-alkyl, alkoxy, alkylthio, alkyl-sulfinyl, alkyl-sulfonyl, halo-alkoxy, halo-alkylthio, alkynyl, alkoxy-carbonyl, amino, alkylamino, amino-carbonyl, alkylaminocarbonyl, sulfonyl, sulfonyl-amino, sulfinyl-amino, and acyl, which were prepared and tested as pesticides against animal pests for use in crop protection. Thus, I (R1 = Me, R2 = i-Pr, R3 = OMe, R4 = R6 = H) was prepared from 3,5-dichloro-4-pyridinecarboxaldehyde by sequential nucleophilic substitution reactions with propane-1-thiol and with sodium methoxide, conversion of the thioether to a sulfonyl chloride with chlorine in chlorobenzene, reaction of the sulfonyl chloride with N-methylisopropylamine to form a sulfonamide, and reaction of the nitrile with hydrogen sulfide. The title compds were used for combating animal pests from the orders Homoptera or Thysanoptera and were applied in an amount of 100 mg to 10 Kg per 100 Kg of seeds.

IT 250154-43-7 CAPLUS
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aminothiobenzoyl-substituted benzenesulfonamides and pyridinesulfonamides as pesticides for the protection of plants against animal pests and insects and particularly against aphids and thrips)

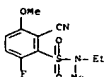
RN 850154-43-4 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propyn-1-yl- (CA INDEX NAME)



RN 889097-44-3 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-6-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2007:995160 CAPLUS Full text

DN 147:3671

TI Preparation of cyanobenzene derivatives as insecticides

IN Pohlman, Matthias; Von Deyn, Wolfgang; Schmidt, Thomas; Kaiser, Florian; Anspaugh, Douglas D.; Culbertson, Deborah L.; Van Tuyt Cotter, Henry

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 112pp.

CODEN: PIXXD2

DT Patent

LA English

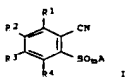
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007060220	A2	20070531	WO 2006-EP68880	20061124
WO 2007060220	A3	20070802		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BH, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, QA				

PRAI US 2005-739642 P 20051125

OS MARPAT 147:3671

GI



AB The cyanobenzene derivs. I [m = 0, 1 or 2; A = N:CR5R6, N:SR7R8, NR10C(X)R9 or ethylenically unsatd. or aromatic N-bound 5-, 6- or 7-membered heterocyclyl; X = O, S or NR11; R1 = H, nitro, cyano, azido, amino, halo,

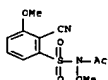
(cyclo)alkyl, alkoxy, etc.; R2-4 = H, halo, cyano, azido, nitro, (cyclo)alkyl, haloalkyl, alkoxy, alkylthio, etc.; R5, R6 = H, OH, NH2, alkoxyaryl, heteroaryl, etc.; R7, R8, R9 = (un)substituted aryl, heteroaryl, etc.; R10 = H, (un)substituted (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R11 = alkyl or alkoxy, etc.) and I salts are prepared as insecticides, especially active against aphids.

IT 250154-43-7 CAPLUS

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

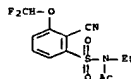
RN 937721-89-6 CAPLUS

CN Acetamide, N-[(2-cyano-3-methoxyphenyl)sulfonyl]-N-methoxy- (CA INDEX NAME)



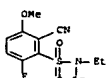
RN 937722-01-5 CAPLUS

CN Acetamide, N-[(2-cyano-3-(difluoromethoxy)phenyl)sulfonyl]-N-ethyl- (CA INDEX NAME)



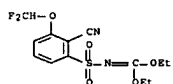
RN 937722-02-6 CAPLUS

CN Acetamide, N-[(2-cyano-6-fluoro-3-methoxyphenyl)sulfonyl]-N-ethyl- (CA INDEX NAME)



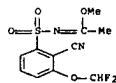
RN 937722-19-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(diethoxymethylene)-3-(difluoromethoxy)- (CA INDEX NAME)



RN 937722-22-0 CAPLUS

CN Ethanimidic acid, N-[[2-cyano-3-(difluoromethoxy)phenyl]sulfonyl]-, methyl ester (CA INDEX NAME)



L22 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:1007694 CAPLUS Full-text

DM 145:350188

TI Preparation of cyanobenzenesulfonamide derivatives as seed-treatment insecticides

IN Von Deyn, Wolfgang; Kaiser, Florian; Pohlman, Matthias; Bastiaans, Henricus Maria Martinus; Baumann, Ernst; Rack, Michael; Anspaugh, Douglas D.; Van Tuyl Cotter, Henry; Culbertson, Deborah L.; Hofmann, Michael; Hicks, Carol

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 65pp.

CODEN: PIXXD2

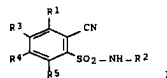
DT Patent

LA English

FAM.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006/100288	A2	20060928	WO 2006-EP60988	20060323
WO 2006/100288	A3	20070125		
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SE, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

AU 2006226300	A1	20060928	AU 2006-226300	20060323
CA 2601072	A1	20060928	CA 2006-2601072	20060323
EP 1863350	A2	20071212	EP 2006-725266	20060323
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			
IN 2007KN02967	A	20070914	IN 2007-KN2967	20070813
KR 2007118133	A	20071213	KR 2007-724311	20071023
PRAI US 2005-664771P	P	20050324		
WO 2006-EP60988	W	20060323		
OS MARPAT 145:350188				
GI				



AB The cyanobenzenesulfonamide deriva. I [R1 = (halo)alkyl or (halo)alkoxy]; R2 = H, (un)substituted alkyl, alkenyl, alkynyl, cycloalkyl, etc.; R3-5 = H, halo, CN, NO2 (halo)alkyl, alkoxy, etc.] or its enantiomers are prepared as seed-treatment insecticides.

IT 850154-32-2P 850154-43-7P 850154-45-9P
850154-46-0P 850154-47-1P 850154-48-2P
850154-49-3P 850154-52-8P 850154-53-9P
850154-54-0P 850154-61-9P 850154-63-0P
850154-63-1P 850154-64-2P 850154-67-5P
850154-69-6P 850154-69-7P 850154-70-0P
850154-71-1P 850154-72-2P 850154-73-3P
850154-75-5P 850154-79-9P 850154-80-2P
850154-81-3P 850154-82-4P 850154-83-5P
850154-84-6P 850154-87-9P 850154-88-0P
850154-89-1P 850154-90-4P 850154-91-5P
850154-92-6P 850154-93-7P 850154-94-8P
850154-95-0P 850154-96-0P 850154-98-2P
850155-01-0P 850155-03-2P 850155-05-4P
850155-06-5P 850155-07-6P 850155-08-7P
850155-09-8P 850155-10-1P 850155-16-3P
850155-17-4P 850155-18-5P 850155-19-6P
850155-14-2P 850155-15-3P 850155-28-8P
850155-31-3P 850155-35-9P 850155-46-0P
850155-47-1P 850155-49-3P 850155-50-6P
850155-51-7P 850155-52-8P 850155-83-5P
850155-85-1P 850155-86-2P 850155-87-3P
850155-89-5P 850155-90-8P 850155-91-9P
850155-92-0P 850155-93-1P 850155-96-4P
850155-97-5P 850155-99-7P 850155-10-1P
850155-73-3P 850155-74-4P 850155-77-7P
850155-78-9P 850155-80-2P 850155-81-7P
850155-82-4P 850155-83-5P 850155-84-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation as seed-treatment insecticide)

RN 850154-03-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-methoxy-N-methyl- (CA INDEX NAME)



RN 850154-43-7 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-3-methoxy- (CA INDEX NAME)



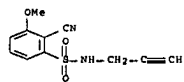
RN 850154-45-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-methoxy-N-(1-methylethyl)- (CA INDEX NAME)



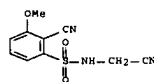
RN 850154-46-0 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



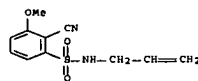
RN 850154-47-1 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-methoxy- (CA INDEX NAME)



RN 850154-48-2 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-methoxy-N-2-propenyl- (9CI) (CA INDEX NAME)



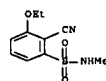
RN 850154-49-3 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-methoxy- (CA INDEX NAME)



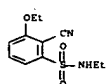
RN 850154-52-8 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-methyl- (CA INDEX NAME)



RN 850154-53-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-ethyl- (CA INDEX NAME)



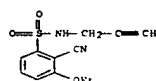
RN 850154-54-0 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy- (CA INDEX NAME)



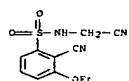
RN 850154-61-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



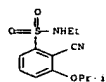
RN 850154-62-0 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-ethoxy- (CA INDEX NAME)



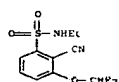
RN 850154-63-1 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-2-propenyl- (9CI) (CA INDEX NAME)



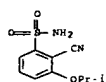
RN 850154-70-0 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-ethyl- (CA INDEX NAME)



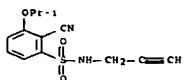
RN 850154-71-1 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)- (CA INDEX NAME)



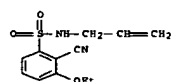
RN 850154-72-2 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 850154-73-3 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-(1-methylethoxy)- (CA INDEX NAME)



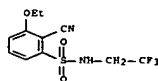
RN 850154-64-2 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-propyl- (CA INDEX NAME)



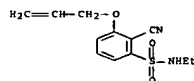
RN 850154-67-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)



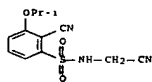
RN 850154-68-6 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)



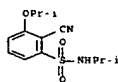
RN 850154-69-7 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(1-methylethoxy)- (CA INDEX NAME)



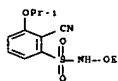
RN 850154-75-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-(1-methylethyl)- (CA INDEX NAME)



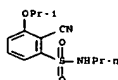
RN 850154-79-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethoxy-3-(1-methylethoxy)- (CA INDEX NAME)



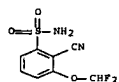
RN 850154-80-2 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-propyl- (CA INDEX NAME)

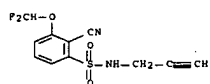


RN 850154-81-3 CAPLUS

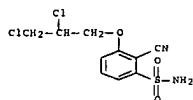
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)- (CA INDEX NAME)



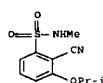
RN 850154-82-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propyn-1-yl- (CA INDEX NAME)



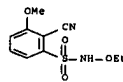
RN 850154-83-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(2,3-dichloropropoxy)- (CA INDEX NAME)



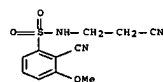
RN 850154-84-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-methyl-3-(1-methylethoxy)- (CA INDEX NAME)



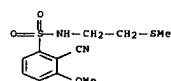
RN 850154-87-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethoxy-3-methoxy- (CA INDEX NAME)



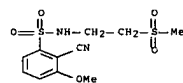
RN 850154-88-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-cyanoethyl)-3-methoxy- (CA INDEX NAME)



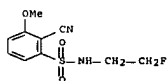
RN 850154-89-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-[2-(methylthio)ethyl]- (CA INDEX NAME)



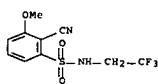
RN 850154-90-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-[2-(methylsulfonyl)ethyl]- (CA INDEX NAME)



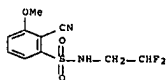
RN 850154-91-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-fluoroethyl)-3-methoxy- (CA INDEX NAME)



RN 850154-92-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)



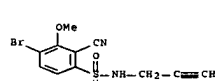
RN 850154-93-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2,2-difluoroethyl)-3-methoxy- (CA INDEX NAME)



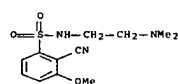
RN 850154-94-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-N,3-dimethoxy- (CA INDEX NAME)



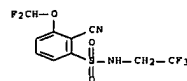
RN 850154-95-9 CAPLUS
CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



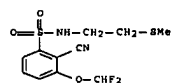
RN 850154-96-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-[2-(dimethylamino)ethyl]-3-methoxy- (CA INDEX NAME)



RN 850154-98-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)

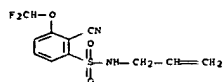


RN 850155-01-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-[2-(methylthio)ethyl]- (CA INDEX NAME)



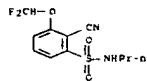
RN 850155-03-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propenyl- (9CI) (CA INDEX NAME)

INDEX NAME)



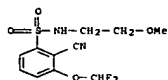
RN 850155-05-4 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-propyl- (CA INDEX NAME)



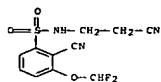
RN 850155-06-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(2-methoxyethyl)- (CA INDEX NAME)



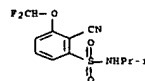
RN 850155-07-6 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(2-cyanoethyl)- (CA INDEX NAME)



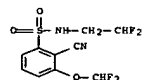
RN 850155-08-7 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(1-methylethyl)- (CA INDEX NAME)



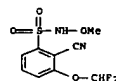
RN 850155-09-8 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(2,2-difluoroethyl)-3-(difluoromethoxy)- (CA INDEX NAME)



RN 850155-10-1 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-methoxy- (CA INDEX NAME)



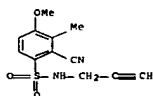
RN 850155-96-3 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-4-methoxy-3-methyl- (CA INDEX NAME)



RN 850155-97-4 CAPLUS

CN Benzenesulfonamide, 2-cyano-4-methoxy-3-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 850155-98-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-4-methoxy-3-methyl- (CA INDEX NAME)



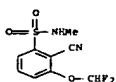
RN 850155-99-6 CAPLUS

CN Benzenesulfonamide, 2-cyano-4-methoxy-N,3-dimethyl- (CA INDEX NAME)



RN 910459-14-2 CAPLUS

CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-methyl- (CA INDEX NAME)



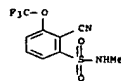
RN 910459-15-3 CAPLUS

CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N-methyl- (CA INDEX NAME)



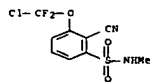
RN 910459-28-8 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-methyl-3-(trifluoromethoxy)- (CA INDEX NAME)



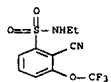
RN 910459-31-3 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-methyl- (CA INDEX NAME)



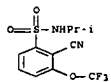
RN 910459-45-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(trifluoromethoxy)- (CA INDEX NAME)



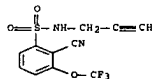
RN 910459-46-0 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(1-methylethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)



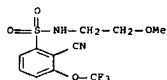
RN 910459-47-1 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-2-propynyl-3-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



RN 910459-49-3 CAPLUS

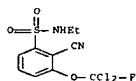
CN Benzenesulfonamide, 2-cyano-N-(2-methoxyethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)



RN 910459-50-6 CAPLUS

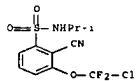
CN Benzenesulfonamide, 2-cyano-N-[2-(methylthio)ethyl]-3-(trifluoromethoxy)- (CA INDEX NAME)

CN Benzenesulfonamide, 2-cyano-3-(dichlorodifluoromethoxy)-N-ethyl- (CA INDEX NAME)



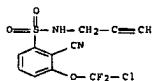
RN 910459-56-2 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(1-methylethyl)- (CA INDEX NAME)



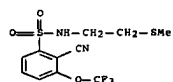
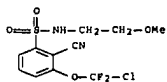
RN 910459-57-3 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-2-propynyl- (9CI) (CA INDEX NAME)



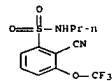
RN 910459-59-5 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2-methoxyethyl)- (CA INDEX NAME)



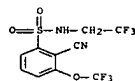
RN 910459-51-7 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-propyl-3-(trifluoromethoxy)- (CA INDEX NAME)



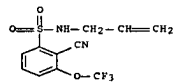
RN 910459-52-8 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-(2,2,2-trifluoroethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)

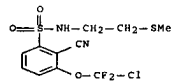


RN 910459-53-9 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-2-propenyl-3-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

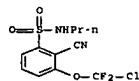


RN 910459-55-1 CAPLUS

RN 910459-60-8 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-[2-(methylthio)ethyl]- (CA INDEX NAME)

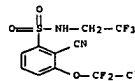
RN 910459-61-9 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-propyl- (CA INDEX NAME)



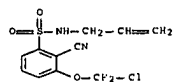
RN 910459-62-0 CAPLUS

CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)

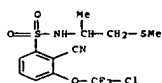


RN 910459-63-1 CAPLUS

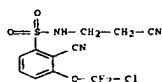
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-2-propenyl- (9CI) (CA INDEX NAME)



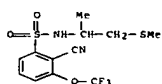
RN 910459-66-4 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-[1-methyl-2-(methylthio)ethyl]- (CA INDEX NAME)



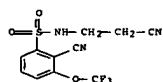
RN 910459-67-5 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2-cyanoethyl)- (CA INDEX NAME)



RN 910459-69-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-[1-methyl-2-(methylthio)ethyl]-3-(trifluoromethoxy)- (CA INDEX NAME)



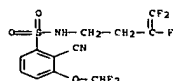
RN 910459-71-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-cyanoethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)



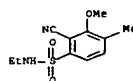
RN 910459-73-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-(difluoromethoxy)-N-ethyl-3-methyl- (CA INDEX NAME)



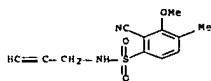
RN 910459-74-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(3,4,4-trifluoro-3-butenyl)- (9CI) (CA INDEX NAME)



RN 910459-77-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-methoxy-4-methyl- (CA INDEX NAME)



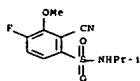
RN 910459-78-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-4-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



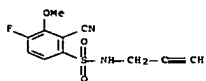
RN 910459-80-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)



RN 910459-81-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-(1-methylethyl)- (CA INDEX NAME)

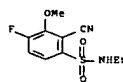


RN 910459-82-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)

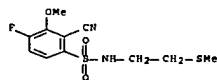


RN 910459-83-5 CAPLUS

CN Benzenesulfonamide, 2-cyano-N-ethyl-4-fluoro-3-methoxy- (CA INDEX NAME)



RN 910459-84-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-[2-(methylthio)ethyl]- (CA INDEX NAME)

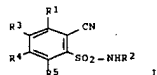


L22 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS ON STN
AN 2006:1005623 CAPLUS [Full-text](#)
DN 145:329902
TI Preparation of sulfonyl insecticides for seed treatment
IN Von Deyn, Wolfgang; Kaiser, Florian; Pohlman, Matthias; Bastiaans, Henricus Maria Martinus; Baumann, Ernst; Rack, Michael; Anspaugh, Douglas D.; Cotter, Henry Van Tuyl; Culbertson, Deborah L.; Hofmann, Michael; Hicks, Carol
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 44pp.
CODEN: PIXXD2
DT Patent
LA English
FAM.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE
PI WO 2006/100271 A1 20060928 WO 2006-EP60961 20060322
M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RM: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TO, BM, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
CA 2601070 A1 20060928 CA 2006-2601070 20060322

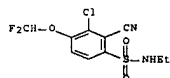
10574153

33 of 52

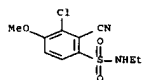
EP 1863349 A1 20071212 EP 2006-725244 20060322
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IS,
 IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
 PRAI US 2005-664773P P 20050324
 WO 2006-EP60961 W 20060322
 OS MARPAT 145:329902
 CI



AB The sulfonyl compds. I (R1 = halo; R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; R3-5 = H, halo, CN, NO2, (halo)alkyl, cycloalkyl, etc.) and their enantiomers are prepared as insecticides for seed treatment.
 IT 909904-05-8P 909904-06-9P 909904-09-2P
 RI: AGR (Agricultural use), SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation as insecticide for seed treatment)
 RN 909904-05-8 CAPLUS
 CN Benzenesulfonamide, 3-chloro-2-cyano-4-(difluoromethoxy)-N-ethyl- (CA INDEX NAME)



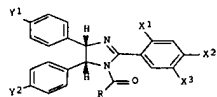
RN 909904-06-9 CAPLUS
 CN Benzenesulfonamide, 3-chloro-2-cyano-N-ethyl-4-methoxy- (CA INDEX NAME)



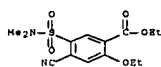
RN 909904-09-2 CAPLUS

10574153

35 of 52



AB S-2,4,5-triaryl-imidazoles I, wherein X1 is alkoxy; X2 and X3 are independently H, halogen, CN, alkyl, alkoxy, piperidinyl, substituted amine, sulfonamide, acyl, sulfoxide, oxime, alkynyl; X2 and X3 together for heterocycle; Y1 and Y2 are independently H, acetylene; R is alkoxy, piperidinyl substituted with 5-6 membered heterocycle or OH or CONH2, piperazinyl substituted with R1; R1 is H, oxo, alkyl, acyl, sulfonyl, were prepared and used as antitumor agents. These compds. are believed to inhibit MDM2-p53 interaction and as such the compds. will have anti-hyperproliferative cellular activity. Thus, 5-((4S,5R)-4,5-bis(4-chlorophenyl)-1-(4-(2-methanesulfonyl)ethyl)piperazine-1-carbonyl)-4,5-dihydro-1H-imidazol-2-yl]-2-chloro-4-ethoxy-N,N-dimethylbenzenesulfonamide was prepared and used for the treatment of breast, colon, lung and prostate tumors. The ability of the compds. to inhibit in vitro the interaction between p53 and MDM2 proteins was measured. IC50s showing biol. activity that applies to compds. of the subject matter of this invention ranges from about 0.005 µM to about 1 µM. 5-[4,5-Bis(4-chlorophenyl)-1-[4-(2-hydroxyethyl)-3-oxopiperazine-1-carbonyl]-4,5-dihydro-1H-imidazol-2-yl]-2-chloro-4-ethoxy-N,N-dimethylbenzenesulfonamide.
 IT 910563-65-5P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of cis-2,4,5-triaryl-imidazoles and their use as anticancer medicaments)
 RN 910563-65-9 CAPLUS
 CN Benzoic acid, 4-cyano-5-[[dimethylamino)sulfonyl]-2-ethoxy-, ethyl ester (CA INDEX NAME)



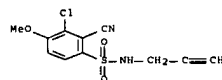
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:510657 CAPLUS Full-text
 DN 145:27730
 TI Preparation of 2-cyano-3-(halo)alkoxybenzenesulfonamides as pesticides.
 IN Von Deyn, Wolfgang; Bastiaans, Henricus Maria Martinus; Pohlman, Matthias; Rack, Michael; Baumann, Ernst; Puhl, Michael; Hofmann, Michael; Todeschi, Livio; Kordes, Markus; Koradin, Christopher; Anspaugh, Douglas D.;

10574153

34 of 52

CN Benzenesulfonamide, 3-chloro-2-cyano-4-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2006:980053 CAPLUS Full-text
 DN 145:377334
 TI Preparation of cis-2,4,5-triaryl-imidazoles and their use as anticancer medicaments
 IN Fotouhi, Nader; Maley, Gregory, Jay; Simonsen, Klaus, B.; Vu, Binh, Thanh; Webber, Stephen, Evan
 PA F.Hoffmann-La Roche AG, Switz.
 SO PCT Int. Appl., 293pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

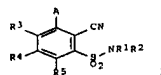
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006097261	A1	20060921	WO 2006-EP2282	20060313
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2006224765	A1	20060921	AU 2006-224765	20060313
CA 2599476	A1	20060921	CA 2006-2599476	20060313
US 2006211693	A1	20060921	US 2006-374407	20060313
EP 1861376	A1	20071205	EP 2006-707535	20060313
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
KR 2007107129	A	20071106	KR 2007-721160	20070914
IN 2007CN04051	A	20071123	IN 2007-CN4051	20070917
PRAI US 2006-662516P	P	20050316		
WO 2006-EP2282	W	20060313		
OS MARPAT 145:377334				
CI				

10574153

36 of 52

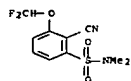
Culbertson, Deborah L.; Cotter, Henry Van Tuyt; Oloumi-Sadeghi, Hassan
 PA Basf Aktiengesellschaft, Germany
 SO PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006056433	A2	20060601	WO 2005-EP12561	20051124
WO 2006056433	A3	20060914		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005308962	A1	20060601	AU 2005-308962	20051124
CA 2586520	A1	20060601	CA 2005-2586520	20051124
EP 1819668	A2	20070822	EP 2005-810670	20051124
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
CN 101065353	A	20071031	CN 2005-80040653	20051124
IN 2007KN01847	A	20070810	IN 2007-KN1847	20070523
KR 2007086639	A	20070827	KR 2007-714451	20070625
PRAI US 2004-631204P	P	20041126		
WO 2005-EP12561	W	20051124		
OS MARPAT 145:27730				
CI				

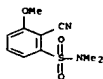


AB Title compds. [I; A = alkoxy, haloalkoxy, R1 = alkyl, alkenyl; R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy; R3-R5 = H, halo, cyano, NO2, alkyl, cycloalkyl, haloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkoxy, haloalkylthio, alkynyl, alkynyl, alkoxy, carbonyl, amino, aminocarbonyl, etc.], were prepared. Thus, 2-cyano-3-difluoromethoxyphenylsulfonyl chloride (preparation given) and dimethylamine were stirred in THF/aqueous Na2CO3 to give 79% N,N-di-Me 2-cyano-3-difluoromethoxyphenylsulfonylamine. The latter and addnl. I at 300 ppm gave >95% kill of *Aphis gossypii* on cotton plants.
 IT 889097-30-7P 889097-31-8P 889097-32-4P

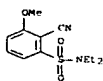
889097-30-7 CAPLUS
 Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N,N-dimethyl- (CA INDEX NAME)
 (preparation of 2-cyano-3-(halo)alkoxybenzenesulfonamides as pesticides)
 RN 889097-30-7 CAPLUS
 CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N,N-dimethyl- (CA INDEX NAME)



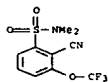
RN 889097-31-8 CAPLUS
 CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



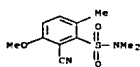
RN 889097-32-9 CAPLUS
 CN Benzenesulfonamide, 2-cyano-N,N-diethyl-3-methoxy- (CA INDEX NAME)



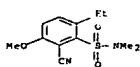
RN 889097-33-0 CAPLUS
 CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)



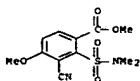
RN 889097-38-5 CAPLUS
 CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N,6-trimethyl- (CA INDEX NAME)



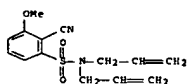
RN 889097-39-6 CAPLUS
 CN Benzenesulfonamide, 2-cyano-6-ethyl-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



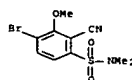
RN 889097-40-9 CAPLUS
 CN Benzoic acid, 3-cyano-2-[(dimethylamino)sulfonyl]-4-methoxy-, methyl ester (CA INDEX NAME)



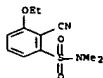
RN 889097-41-0 CAPLUS
 CN Benzenesulfonamide, 6-chloro-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



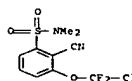
RN 889097-34-1 CAPLUS
 CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



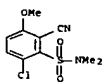
RN 889097-35-2 CAPLUS
 CN Benzenesulfonamide, 2-cyano-3-ethoxy-N,N-dimethyl- (CA INDEX NAME)



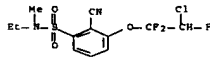
RN 889097-36-3 CAPLUS
 CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N,N-dimethyl- (CA INDEX NAME)



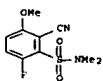
RN 889097-37-4 CAPLUS
 CN Benzenesulfonamide, 2-cyano-N,N-dimethyl-3-(trifluoromethoxy)- (CA INDEX NAME)



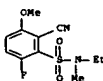
RN 889097-42-1 CAPLUS
 CN Benzenesulfonamide, 3-(2-chloro-1,1,2-trifluoroethoxy)-2-cyano-N-ethyl-N-methyl- (CA INDEX NAME)



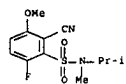
RN 889097-43-2 CAPLUS
 CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



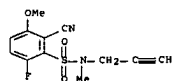
RN 889097-44-3 CAPLUS
 CN Benzenesulfonamide, 2-cyano-N-ethyl-6-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)



RN 889097-45-4 CAPLUS
 CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N-methyl-N-(1-methylethyl)- (CA INDEX NAME)



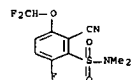
RN 889097-46-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



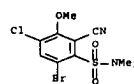
RN 889097-47-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-3,4-dimethoxy-N,N-dimethyl- (CA INDEX NAME)



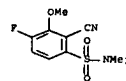
RN 889097-48-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-6-fluoro-N,N-dimethyl- (CA INDEX NAME)



RN 889097-49-8 CAPLUS
CN Benzenesulfonamide, 6-bromo-4-chloro-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)

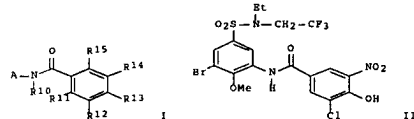


RN 889097-50-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



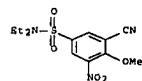
L22 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS ON STN
AN 2001-636036 CAPLUS [Full-text](#)
DN 135:210839
TI Preparation of benzamide derivatives as corticotropin releasing factor receptor antagonists
IN Sato, Motohide; Harada, Kazuhito; Miyazaki, Akira
PA Japan Tobacco, Inc., Japan
SO PCT Int. Appl., 221 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001062718	A1	20010830	WO 2001-JP1429	20010226
W:	AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	CH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
JP 2002201172	A	20020716	JP 2001-45859	20010221
PRAI JP 2000-50336	A	20000225		
JP 2000-337197	A	20001106		
JP 2000-337579	A	20001106		
OS MARPAT 135:210839				
GI				

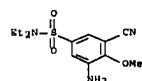


AB The title compds. I [A is optionally substituted 3-sulfamoylphenyl, optionally substituted 2-thienyl, etc.; R10 is hydrogen or optionally substituted lower alkyl; R11 is hydrogen, halogeno, or hydroxy; R12 is hydrogen, halogeno, or nitro; R13 is hydroxy, optionally substituted lower alkoxy, optionally substituted lower alkylamino, etc.; R14 is hydrogen, halogeno, nitro, etc.; and R15 is hydrogen, halogeno, or hydroxyl] are prepared in an in vitro binding assay for corticotropin releasing factor receptor antagonism, the potassium salt of title compound II showed IC50 of 36 nM.
IT 357332-55-3P 357332-32-EP
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzamide derivs. as corticotropin releasing factor receptor antagonists)

RN 357332-59-3 CAPLUS
CN Benzenesulfonamide, 3-cyano-N,N-diethyl-4-methoxy-5-nitro- (CA INDEX NAME)

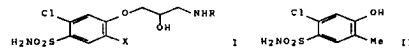


RN 357332-93-5 CAPLUS
CN Benzenesulfonamide, 3-amino-5-cyano-N,N-diethyl-4-methoxy- (CA INDEX NAME)



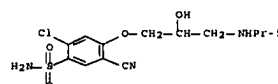
L22 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS ON STN
AN 1988:473125 CAPLUS [Full-text](#)
DN 109:73125
TI Preparation of phenoxyaminopropanols as β -blockers and diuretics
IN Shioiri, Takayuki; Aoyama, Toyohiko; Takamori, Masayuki
PA Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JXXXAP
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62215559	A	19870922	JP 1986-58982	19860317
PRAI JP 1986-58982		19860317		
OS CASREACT 109:73125				
GI				



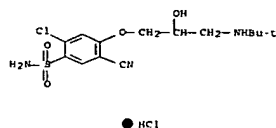
AB The title compds. I (R = alkyl; X = alkyl, sulfamoyl, halo, alkoxy, carbonyl, cyano, alkoxy, alkoxy, carbonyl, amino, etc.) were prepared as β -blockers and diuretics (no data). Etherification of I with CH2:CHCH2Br followed by oxidation with m-ClC6H4CO2OH and reaction with Me2CHNH2 gave I.HCl (R = Me2CH, X = Me).

IT 115582-97-3P 115582-95-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as β -blocker and diuretic)
RN 115582-97-3 CAPLUS
CN Benzenesulfonamide, 2-chloro-5-cyano-4-[(1,1-dimethylethyl)amino]propoxy-, monohydrochloride (9CI) (CA INDEX NAME)

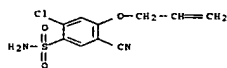


● HCl

RN 115582-98-4 CAPLUS
CN Benzenesulfonamide, 2-chloro-5-cyano-4-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy-, monohydrochloride (9CI) (CA INDEX NAME)



IT : 1, 4.
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, in preparation of β -blocker and diuretic)
 RN 115592 E0-4 CAPLUS
 CN Benzenesulfonamide, 2-chloro-5-cyano-4-(2-propenyloxy)- (9C1) (CA INDEX NAME)

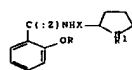


L22 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1982:6713 CAPLUS [Full-text](#)
 DN 96:6713
 OREF 96:1222h, 1223a
 TI Sulfonil compounds and aphicidal compositions based on these compounds
 IN van Hes, Roelof; Grosscurt, Arnoldus Cornelis; Balk, Wouter
 PA Duphar International Research B. V., Neth.
 SO Eur. Pat. Appl., 48 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 33984	A1	19810819	EP 1981-200042	19810115
EP 33984	B1	19840606		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
AT 7787	T	19840615	AT 1981-200042	19810115
BR 8100281	A	19810804	BR 1981-281	19810119
US 4379157	A	19830405	US 1981-226533	19810119
DK 8100241	A	19810724	DK 1981-241	19810120
AU 8166360	A	19810730	AU 1981-66360	19810120
JP 56120664	A	19810922	JP 1981-6043	19810120
ZA 8300382	A	19820224	ZA 1981-382	19810120
DD 157071	A5	19821013	DD 1981-227106	19810120
RO 81451	A1	19840402	RO 1981-103171	19810120
IL 61942	A	19851129	IL 1981-61942	19810120
ES 498695	A1	19811101	ES 1981-498695	19810121

10574153 47 of 52

JP 56042597 B 19811006
 PRAI JP 1974-78617 A 19740709
 GI



AB The N-(1-alkyl-2-pyrrolidinylalkyl)benzamides I (R, R1 = alkyl, X = alkylene) or their acid addition salts were prepared by oxidation of their S analogs II or their acid addition salts. Thus, 1 g II (R = Me, R1 = Et, X = CH2), obtained from O-Me 2-methoxy-5-sulfamoylthiobenzoate and 2-(aminomethyl)-1-ethylpyrrolidine, was refluxed with 2 g Pb(OAc)4 in H2O for 6 hr to give 0.75 g I (R = Me, R1 = Et, X = CH2).

IT 22117-84-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (alcoholysis of)
 RN 22117-84-6 CAPLUS
 CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



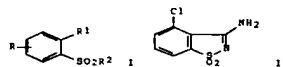
L22 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1975:4117 CAPLUS [Full-text](#)
 DN 92:4117
 OREF 92:707a, 710a
 TI N-[1-Ethyl-2-pyrrolidinylmethyl]-2-methoxy-5-sulfamoylbenzamide
 IN Bulteau, Gerard; Acher, Jacques; Monié, Jean C.
 PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
 SO Ger. Offen., 9 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2409891	A1	19740912	DE 1974-2409891	19740301
FR 2220522	A1	19741004	FR 1973-8033	19730306
FR 2220522	B1	19770204		
CA 1010046	A1	19770510	CA 1974-193458	19740225
AT 7401590	A	19790415	AT 1974-1590	19740227

10574153

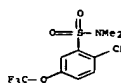
46 of 52

CS 219348	B2	19830325	CS 1981-439	19810121
CA 1167043	A1	19840508	CA 1981-368982	19810121
HU 28630	A2	19831228	HU 1981-134	19810122
HU 186379	B	19850729		
ES 500638	A1	19820101	ES 1981-500638	19810324
SU 1093247	A3	19840515	SU 1981-3328851	19810619
PRAI NL 1980-414	A	19800123		
EP 1981-200042	A	19810115		
OS MARPAT 96:6713				
GI				



AB Sulfones I (R = halogen, OPh, alkyl, alkoxy; R1 = cyano, R2 = amino; R1R2 = 8,8-dialkylsulfoximido, 1-amino-2-azavinylene, 1-amino-2-azaeethylene) were prepared. Thus 11.8 g 3,2-Cl(CN)C6H3SO2Cl was treated with 12.5 ml 25% aqueous NH3 to give 8.9 g II which was aphicidal at 10 mg/L.

IT 80043-69-2
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and aphicidal activity of)
 RN 80043-69-2 CAPLUS
 CN Benzenesulfonamide, 2-cyano-N,N-dimethyl-5-(trifluoromethoxy)- (CA INDEX NAME)



L22 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1977:5307 CAPLUS [Full-text](#)
 DN 86:5307
 OREF 86:915a, 918a
 TI N-(1-alkyl-2-pyrrolidinylalkyl)-2-alkoxy-5-sulfamoylbenzamides
 PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France, Fr.
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKKXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51008265	A	19760123	JP 1974-78617	19740709

10574153

48 of 52

AT 358567	B	19800925		
JP 49124056	A	19741127	JP 1974-24110	19740301
JP 56041631	B	19810929		
GB 1420890	A	19760114	GB 1974-9425	19740301
FI 57931	B	19800731	FI 1974-629	19740304
FI 57931	C	19801110		
PRAI FR 1973-8033	A	19730306		
OS CASREACT 82:4117				
GI For diagram(s), see printed CA Issue.				
AB The benzamide I was prepared. Thus, 3,4-R(MeO)C6H3SO2NH2 (II, R = CO2H) was treated with PCl5-NH4OH to give 94% II (R = CN) (III). Reaction of III with MeOH gave 54% II (R = C(NH)OMe) (IV). IV was treated with H2S to give 73% II (R = CSOMe) (V). Grignard reaction of V with 2-[(dibromoamino)methyl]-1-ethylpyrrolidine gave 34% thiobenzamide VI. VI was treated with (AcO)4Pb to give 75% I.				
IT 22117-84-6 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and methoxylation of)				
RN 22117-84-6 CAPLUS				
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)				



L22 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1969:461019 CAPLUS [Full-text](#)
 DN 71:61019
 OREF 71:11211a, 11214a
 TI 2-Alkoxy-5-sulfamidobenzoic acids
 PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
 SO Fr., 4 pp.
 CODEN: FRXXAK
 DT Patent
 LA French
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1524388		19680510	FR 1967-101151	19670331

AB The title compds. were prepared. Thus, addition at -10° of 436 g. ClSO3H to a solution of 200 g. anisole in 700 ml. CHCl3 gave 210 g. 4-methoxybenzenesulfonyl chloride (II), m. 38°. I (205 g.) added to 718 ml. HNO3 (d. 1.49) at -6° gave 211 g. 3-nitro-4-methoxy-benzenesulfonyl chloride (III). Reaction of 200 g. II with 600 g. ammonium carbonate at 100° gave 172 g. 2-nitro-4-sulfamoylanisole (III), m. 142°. III (30 g.) in 50 ml. absolute EtOH, by hydrogenation in an autoclave at 50°/30 atmospheric in the presence of 20 g. Raney Ni, gave 25 g. 2-methoxy-5-sulfamoylaniline (IV), m. 143°. A mixture of 81 g. IV, 424 ml. water, and 77 ml. HCl (d. 1.19) treated at 0° with 32.3 g. NaNO2 in 108 ml. water and then added at 90° to a solution of 107.2 g.

CuSO₄.5H₂O in 645 ml. water and then reacted with 89.2 g. NaCN gave 41 g. 2-methoxy-5-sulfamoylbenzonitrile (V), m. 180-1°. A mixture of 15 g. V, 74 ml. water, 70 ml. H₂SO₄ (d. 1.84) heated to 130-40° for 30 min. gave 11 g. 2-methoxy-5-sulfamoylbenzoic acid, m. 220°. Similarly, from 2-ethoxybenzene, 2-ethoxy-5-(dimethylsulfamoyl)-benzoic acid, m. 123°, was prepared

IT 22117-84-6P 22121-74-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 22117-84-6 CAPLUS
 CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



RN 22121-74-0 CAPLUS
 CN Benzenesulfonamide, 3-cyano-4-ethoxy-N,N-dimethyl- (CA INDEX NAME)



L22 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1969:430239 CAPLUS Full-text

DN 71:30239

OREF 71:5569a,5572a

TI 2-Alkoxy-5-sulfonamidobenzoic acids

PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France

SO Fr., 4 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1532332		19680712	FR 1967-100123	19670323

PI For diagram(s), see printed CA Issue.

GI In the title compds. (I), R = C1-5 alkyl or alkenyl and R1,R2 = C1-3 alkyl groups, or NR1R2 is part of a ring containing O or N. I were prepared by a series of reactions starting with ordinary phenols. E.g., 470 g. PHOH and 650 g. concentrated H₂SO₄ were stirred at 125-30° 6 hrs., then after dilution with H₂O poured into a solution of 535 g. NaNO₃ in 1 l. H₂O and worked up to give

dried and triturated with alc., the 2 filtrates added to the main solution, and the solution cooled 1 hr. and evaporated in vacuo to give 86% 2,5-(MeO)(H₂NSO₂)C₆H₃NH₂ (II), m. 142°. Similarly prepared was 70% 2,5-(EtO)(Me₂NSO₂)C₆H₃NH₂, m. 125°. A solution of 32.3 g. NaNO₂ in 100 g. H₂O was added to a solution of 81 g. II, 77 ml. HCl (d. 1.19), and 424 ml. H₂O and the mixture stirred 30 min. at 0-5° and added to a diazo solution (prepared from 89.2 g. NaCN, 107.2 g. CuSO₄, and 645 ml. H₂O) at 85-90° in 15 min., the mixture stirred 20 min. at 85-90°, cooled, kept at 0-5° 2 hrs., and filtered, the solid washed in water, dried at 60°, and mixed with 1650 ml. absolute EtOH, the mixture filtered, and the filtrate boiled 0.5 hr. with charcoal, evaporated to 600 ml., and cooled 1 hr. to give 48.5% 2,5-(MeO)(H₂NSO₂)C₆H₃CN (III), m. 180-1°. Similarly prepared was 46.5% 2,5-(EtO)(Me₂NSO₂)C₆H₃CN, m. 103-4°. A mixture of 15 g. III, 70 ml. H₂SO₄ (d. 1.84), and 74 ml. H₂O was kept at 130-40° 0.5 hrs., cooled at 0-5° 2 hrs., and filtered, the solid triturated 4 times with H₂O, dried at 60°, and dissolved in 250 ml. saturated NaHCO₃ solution, the solution clarified with 2.5 g. charcoal 0.5 hr. and acidified to pH 1 with 25 ml. HCl (d. 1.19), and the precipitate filtered off, washed with H₂O until the washings were Cl⁻ free, and dried at 60° to give 67% 2,5-(MeO)-(H₂NSO₂)C₆H₃CO₂H, m. 220°. Similarly prepared was 2,5-(EtO)(Me₂NSO₂)C₆H₃CO₂H, m. 123°.

IT 22117-84-6P 22121-74-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 22117-84-6 CAPLUS

CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



RN 22121-74-0 CAPLUS
 CN Benzenesulfonamide, 3-cyano-4-ethoxy-N,N-dimethyl- (CA INDEX NAME)



=> log hold
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE
 ENTRY
 82.23

TOTAL
 SESSION
 463.06

605 g. II (R = H, R1 = ONa) III. III (241 g.) was methylated with Me₂SO₄ in basic solution to give 80 g. II (R = Me, R1 = ONa) (IV). IV (51 g.) was treated with 80 ml. POCl₃ and 50 g. PCl₅ to give II (R = Me, R1 = Cl), m. 66°. Treatment with (NH₄)₂CO₃ gave 172 g. II (R = Me, R1 = NH₂), m. 142°. Reduction with Fe and HCl gave 119 g. V, m. 146°. By Sandmeyer reaction, 81 g. V was converted to 41 g. VI, m. 190-1°. Hydrolysis of 15 g. VI with H₂SO₄ gave 11 g. I (R = Me, R1 = R2 = H), m. 220°. I are intermediates in the synthesis of alkoxy-sulfonamidobenzoic acids having useful pharmacol. properties.

IT 22117-84-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 22117-84-6 CAPLUS
 CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



L22 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1969:67925 CAPLUS Full-text

DN 70:67925

OREF 70:12677a,12680a

TI 2-Alkoxy-5-sulfamoylbenzoic acids

IN Bulteau, Gerard

PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France

SO S. African, 18 pp.

CODEN: SFXKAB

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6801840		19680821	ZA	
FR 1524388			FR	
FR 1525352			FR	
FR 1532332			FR	
GB 1204406			GB	

PRAI FR 19670323
 FR 19670406

AB A mixture of 600 g. crushed (NH₄)₂CO₃ and 200 g. 2-methoxy-5-chlorosulfonylnitrobenzene was stirred in a boiling water bath 2 hrs., poured onto 2 kg. water and ice, and stirred 15 min., the solid filtered off, repeatedly (until foams no longer form) triturated with 200 ml. 10% HCl and with water, and dried at 60° to give 172 g. 2,5-(MeO)(H₂NSO₂)C₆H₃NO₂ (I). Similarly prepared was 97% 2,5-(EtO)(Me₂NSO₂)C₆H₃NO₂, m. 108-9°. A mixture of 206 g. powdered Fe and 800 ml. H₂O was added to a stirred mixture of 158 g. I and 800 ml. absolute EtOH at 60°, the mixture stirred at 80° to suspend the Fe, a solution of 20 ml. HCl (d. 1.19) in 80 ml. H₂O added <90°, the mixture kept at 80-5° 3 hrs., the pH adjusted to 7.5 by addition of a solution of 20 g. potash in 50 ml. H₂O and 50 ml. alc., the mixture filtered, the brown solid

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
	-12.00	-21.60

CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:05:20 ON 28 JAN 2008